

## EUROPEAN PATENT OFFICE

### Patent Abstracts of Japan

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INT.CL. : A21D 8/02 A21C 1/00 // B01F 7/00

TITLE : METHOD FOR KNEADING DOUGH CONTAINING WHEAT FLOUR AND KNEADING  
DEVICE THEREFOR

ABSTRACT : PURPOSE: To judge a blended state of dough and to accurately and readily decide  
completion of kneading operation in blending wheat flour with water and subsidiary  
materials by detecting change of drive force caused by reaction force of dough (material)  
through a revolving and stirring rod.

CONSTITUTION: The value of power to drive a revolving and stirring rod of a blender to  
knead wheat flour with water and subsidiary materials while stirring to give dough is  
detected, change of drive force in a very short time caused by change of reaction force  
received from the dough by rotation of the revolving and stirring rod is discovered, the  
peak value of the change of drive force in the very short time is obtained in each short  
time and the advance state of the kneading operation is judged based on the state of the  
change of the peak value.

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AP - JP19850059424 19850326  
CPY - SYST-N  
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PA - (SYST-N) SYST SOGOKAIHATSU K  
PN - JP61219333 A 19860929 DW198645 007pp  
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PR - JP19850059424 19850326  
XA - C1986-128468  
XIC - A21C-001/00 ; A21D-008/02 ; B01F-007/00  
AB - J61219333 Mixer load in kneading process of bread base material is  
detected and kneading condition for each bath is indicated by  
variation curve and pulsation amplitude curve of mixer load signal.  
- USE/ADVANTAGE - Change of condition of base material during kneading  
is shown by typical pattern obtd. from load signal of mixer driving  
motor. Adequate kneading is ensured and operator is able to carry out  
optimum kneading process without malfunctioning kneading of base  
material. (7pp Dwg.No.0/7)  
IW - MONITOR KNEAD WORK BREAD DOUGH LOAD SIGNAL MIX LOAD SIGNAL  
IKW - MONITOR KNEAD WORK BREAD DOUGH LOAD SIGNAL MIX LOAD SIGNAL  
NC - 001  
OPD - 1985-03-26  
ORD - 1986-09-29  
PAW - (SYST-N) SYST SOGOKAIHATSU K  
TI - Monitoring kneading work of bread dough - from load signal of mixer  
load signal